

AMENDMENTS TO THE SPECIFICATION:

Please amend the paragraph beginning at page 19, line 7, and continuing to page 19, line 21, as follows:

Figs. 1A and 1B are descriptive views showing a way of scaling in a nonvolatile variable resistor according to a first embodiment. Fig. 1A is a perspective view of the nonvolatile variable resistor Rv before scaling is applied. Fig. 1B is a perspective view of the nonvolatile variable resistor Rv after scaling is applied at a magnification of $1/k$ times ($k > 1$) thereto. In Fig. 1A, the nonvolatile variable resistor Rv is formed with a first electrode 1 in the shape of a column of a height h and a radius r as an inner electrode. A nonvolatile variable resistance body 2 in a cylindrical shape is formed on an outer surface of the first electrode 1 in a layer with a film thickness t and a second electrode 3 in a cylindrical shape of a radius $r + t$ is formed as an outer electrode on an outer surface of the nonvolatile variable resistance body 2 so as to face the first electrode

1. The second electrode 3 is concentric about the first electrode 1.